

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **2003257120 A**

(43) Date of publication of application: **12.09.2003**

(51) Int. Cl. **G11B 20/10**

G06F 12/14, G11B 20/12

(21) Application number: **2002059172**

(22) Date of filing: **05.03.2002**

(71) Applicant: **SHARP CORP**

(72) Inventor: **YOKOTA NORIAKI**

(54) DISK RECORDING AND PLAYBACK DEVICE AND DISK RECORDING AND PLAYBACK MEDIUM

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a copy protection system for easily and strongly preventing unauthorized copying without using a complicated ciphering system for a disk recording and playback medium capable of recording and playback.

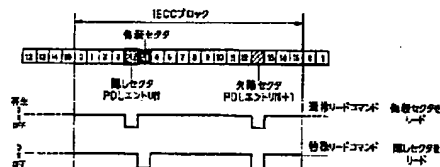
SOLUTION: A disk recording and playback device is provided with a data recording and reproducing means for recording and reproducing data by the unit of 1 ECC block constituted of a plurality of sectors to a data area and forming an alternate sector for the defective sector of the data area in another part excluding the defective sector of the data area, and a defect managing means for managing the number of the defective sectors, the addresses of the defective sectors and the addresses of the alternate sectors in a defect managing area. The defect managing means manages a prescribed normal sector as the defective sector and the recording and reproducing means records normal data in the prescribed normal sector turned to the de-

fective sector and records dummy data different from the normal data and not generating an ECC error in the alternate sector.

COPYRIGHT: (C)2003,JPO

(a)

複製が禁止されたオリジナルディスク



(b)

不正コピーされたディスク

